

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

RESOLUTION NO. 88-083

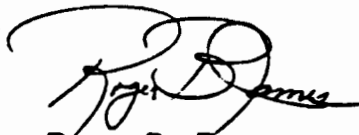
STATEMENT OF SUPPORT FOR MUNICIPAL WASTEWATER REUSE IN PETROLEUM
REFINERY OPERATIONS

CONTRA COSTA COUNTY

- I. WHEREAS, the Regional Board acknowledges the importance of wastewater reclamation to meet future water demand in California and has encouraged and supported wastewater reclamation projects within the Region.
- II. WHEREAS, Central Contra Costa Sanitary District and Contra Costa Water District began to evaluate the feasibility of a wastewater reclamation for industrial use in November 1986.
- III. WHEREAS, The sanitary district will provide tertiary treatment to its secondary effluent by in-line coagulation and direct filtration and the water district will subsequently provide water softening and chlorination in compliance with Wastewater Reclamation Criteria in Title 22, California Administrative Code.
- IV. WHEREAS, the reclaimed water will be distributed to Shell Martinez manufacturing complex (hereinafter Shell) and TOSCO, Avon Refinery (hereinafter Tosco) for use as cooling tower make-up water.
- V. WHEREAS, the facilities for reclamation up to 15 million gallons per day (mgd) were built and the operation has been permitted by Regional Board Order No. 79-34.
- VI. WHEREAS, prior to full scale operation, the sanitary district and water district propose a demonstration project to demonstrate compliance with Title 22 Criteria by producing 3 mgd of reclaimed water for approximately one year.
- VII. WHEREAS, Shell and Tosco may use up to 2.5 and 0.5 mgd respectively of the reclaimed water in their cooling towers.
- VIII. WHEREAS, the impact of using the reclaimed water on the cooling tower operation, the quality of tower blowdown water and the overall industrial wastewater discharges will be evaluated by Shell and Tosco.
- IX. WHEREAS, during the demonstration project there is a possibility that Shell and Tosco might violate their waste discharge requirements contained in Order Nos. 87-10 and 85-053 respectively due to pollutants in the influent reclaimed water causing a net increase in the pollutants present in their discharges.

- X. WHEREAS, the combined total pollutant loadings to the receiving water from Central Contra Costa Sanitary District, Shell and Tosco will not increase, and may decrease due to increased treatment.
- XI. THEREFORE, BE IT RESOLVED, that the Board finds that this demonstration project will provide benefit to the people of the State. In order to assure the users of this reclaimed water that they will not be penalized for the use and ultimate discharge of pollutants that would have been a permitted discharge to the Bay in any event, the following steps will be taken.
- A. Upon successful completion of the demonstration project and pursuant to EPA regulation 122.45(g) the Board will consider amending the NPDES permits for Shell and Tosco such that effluent limits will account for pollutants present in the reclaimed wastewater.
 - B. It is the Board's intent to consider amending the discharge permits for Shell and Tosco to include during the interim or start-up period intake water credits equal to the amount of pollutants in the reclaimed water utilized by their respective facilities. Credits to be applied to concentration-based limits shall be calculated to consider reclaimed water evaporation in refinery cooling water systems.
 - C. If during the interim or start-up period, (approximately one year), Tosco or Shell experience violations of NPDES waste discharge requirements and present substantial evidence that the cause of violation was the use of reclaimed water, the staff and Board will include this information in any consideration of enforcement.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of a Resolution adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on May 18, 1988.


Roger B. James
Executive Officer

50-012